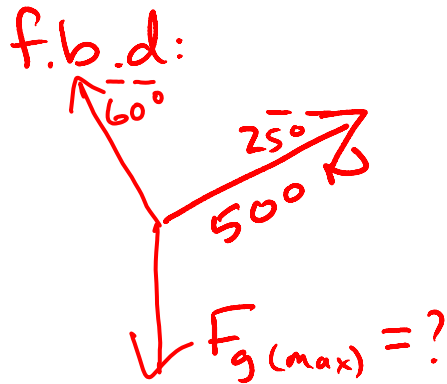
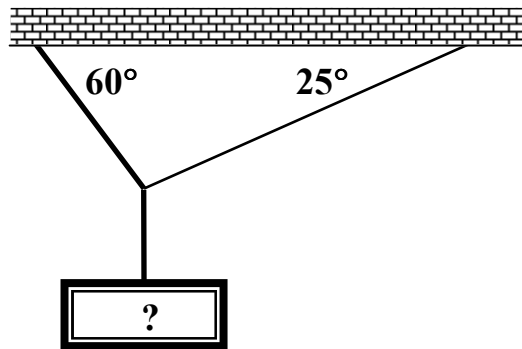
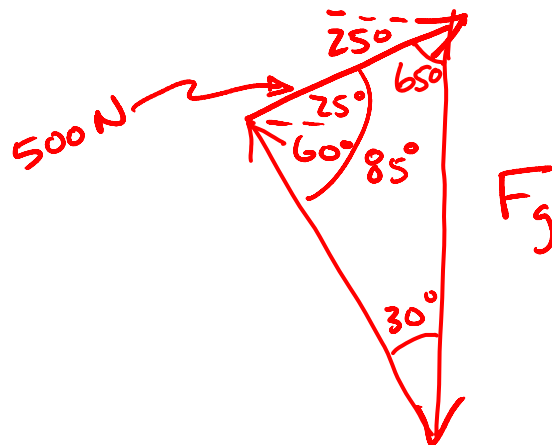


Example #2. In this case, the left cable is strong, but the right cable can only handle a maximum tension of 5.0×10^2 N. What is the heaviest weight that can be hung?



vector - addition:



→ use sine law to solve:

$$\frac{\sin 30}{500} = \frac{\sin 85}{F_g}$$

$$F_g = 1.0 \times 10^3 \text{ N} \quad (996)$$